

# Work Order ID 120689

\*120689\*

Tuesday, June 10, 2014 1:33:06 PM

Page 1

Item ID: D139-816-011

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: Lightweight Interior Ceiling Panel

Stop \*NS2\*

Start Date: 7/02/14 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 8/15/14 Req'd Qty: 1.00

\*1\*

Customer:

Reference:

Approvals:

Process Plan: *AD*

Date: 14-6-10

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9686	A								
DSI9691	A								
IIN-D139-816	D								

100

Document Control

0.00

\*100\*

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy blue file & type labels as per PPP D139-816-011 CHG005

DAS  
31  
9-89

*14-07-17*

110

Pick Kit

0.00

\*110\*

Packaging

Memo

0.00

Packaging

DAS  
33  
9-89

*14-07-01*

DAS  
33  
9-89

# Work Order ID 120689

Tuesday, June 10, 2014 1:33:06 PM

**\*120689\***

Page 2

Item ID: D139-816-011 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Lightweight Interior Ceiling Panel  
 Start Date: 7/02/14 Start Qty: 1.00 **\*1\*** Cust Item ID:  
 Required Date: 8/15/14 Req'd Qty: 1.00 **\*1\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00							
<b>*120*</b>						JUL 21 2014	<del>9-89</del>	DAS 31 9-89	
QC	Memo	0.00							
Quality Control									
130	Packaging	0.00							
<b>*130*</b>						JUL 21 2014		DAS 06 9-89	<del>8</del>
Packaging	Memo	0.00							
Packaging	Package as per PPP D139-816-011 Identify and Stock								
	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

MCS 14-07-21

4-721

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 1

Work Order ID: 120689

\*120689\*

Parent Item: D139-816-011

\*D139-816-011\*

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

## Comments:

IPP Rev A 12/05/07 New Release DL  
IPP Rev. B 12/11/08 Update dwg. DL  
Dwg. Update 13/07/09 DL verf:DD  
PER IIN REV.D DD VERF:JFS  
DSI9686 JLM VERIFIED BY:DD

IPP Rev. C  
IPP REV:D 13.12.23 AS  
IPP REV E 14.04.01 AS PER

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4634-041		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4634-041*</del> DAS 31 Fwd, Center Ceiling Panel Assembly 9-89									**	120695			
D4634-043		Manufactured	No			110	Each	1.0000	1	1			DAS 06 9-89
<del>*D4634-043*</del> DAS 31 Middle, Center Ceiling Panel Assembly 9-89									**	120699			
	DAS 31 9-89			<u>Location</u> FG				<u>Loc Qty</u> 1					
				114602				1					
D4634-045		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4634-045*</del> DAS 31 Aft, Center Ceiling Panel Assembly 9-89									**	118985			
D4635-041		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4635-041*</del> DAS 31 Fwd Ceiling Panel Assembly, LH 9-89									**	120447			
D4635-042		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4635-042*</del> DAS 31 Fwd Ceiling Panel Assembly, RH 9-89									**	120417			
D4635-043		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4635-043*</del> DAS 31 Aft Ceiling Panel Assembly, LH 9-89									**	120431			
D4635-044		Manufactured	No			110	Each	0.0000	1	1			DAS 06 9-89
<del>*D4635-044*</del> DAS 31 Aft Ceiling Panel Assembly, RH 9-89									**	119010			

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 2

Work Order ID: 120689

\*120689\*

Parent Item: D139-816-011

\*D139-816-011\*

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

D4636-043

Manufactured No

110

Each

38.0000

16 16

\*D4636-043\*

Receptacle Bracket Assembly

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST117

38

117651

38

120094

D4636-11

Manufactured No

110

Each

59.0000

10 10

\*D4636-11\*

Bracket

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST116

59

114728

2

117652

48

92961

9

8x 117652

D4636-5

Manufactured No

110

Each

51.0000

16 16

\*D4636-5\*

Bracket

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

MF3

8

111978

8

ST115

43

114660

11

116195

32

120321

D4636-7

Manufactured No

110

Each

24.0000

4 4

\*D4636-7\*

Retainer Plate

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST112

24

119838

24

119838

DAS  
28  
9-89

DAS  
06  
9-89

DAS  
06  
9-89

DAS  
32  
9-89

DAS  
06  
9-89

DAS  
06  
9-89

LB  
14-07-01

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 2

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 3

Work Order ID: 120689

**\*120689\***

Parent Item: D139-816-011

**\*D139-816-011\***

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

DAS

Start Qty: 1.00

Required Qty: 1.00

06

D4636-9

Manufactured No

110

Each

19.0000

1 1

**\*D4636-9\***

Template

\*\*

DAS  
33  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST115

1

111233

1

ST116

18

117653

18

117653

D4648-1

Manufactured No

110

Each

1.0000

1 1

**\*D4648-1\***

Template

\*\*

DAS  
33  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST133

1

113950

1

119840

D4653-041

Manufactured No

110

Each

6.0000

6 6

**\*D4653-041\***

Vent Manifold Assembly

\*\*

DAS  
32  
9-89

DAS  
06  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST117

6

114705

6

D4653-11

Manufactured No

110

Each

98.0000

6 6

**\*D4653-11\***

Clamp

\*\*

DAS  
33  
9-89

1407-06

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

st113

30

117661

30

ST118

68

111998

6

119841

62

117661

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 3

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 4

Work Order ID: 120689

**\*120689\***

Parent Item: D139-816-011

**\*D139-816-011\***

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

D4664-7

Manufactured No

110

Each

72.0000

**\*D4664-7\***

Spacer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST118

72

107035

1

111835

31

114887

40

3 3  
\*\*

DAS  
33  
9-89

DAS  
06  
9-89

111835

D4712-043

Manufactured No

110

Each

41.0000

**\*D4712-043\***

Bracket Assembly

DAS  
31  
9-89

Location

Loc Qty

Loc Code

st113

17

114715

17

ST118

24

119847

24

2 2  
\*\*

DAS  
33  
9-89

DAS  
06  
9-89

114715

D4716-1

Manufactured No

110

Each

16.0000

**\*D4716-1\***

Duct Hose

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST139

2

93111

2

ST139i

2

113888

2

ST146

12

114843

12

2 2  
\*\*

DAS  
33  
9-89

DAS  
06  
9-89

119772

1407-01

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 4

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 5

Work Order ID: 120689

**\*120689\***

Parent Item: D139-816-011

**\*D139-816-011\***

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

D4716-3

Manufactured No

110

Each

28.0000

4 4

**\*D4716-3\***

Duct Hose

\*\*

119773

DAS  
33  
9-89

DAS  
06  
9-89

## Location

## Loc Qty

## Loc Code

st139g

4

113889

4

ST146

24

114844

24

DAS  
31  
9-89

D4716-5

Manufactured No

110

Each

48.0000

6 6

**\*D4716-5\***

Duct Hose

\*\*

119774

DAS  
33  
9-89

DAS  
06  
9-89

## Location

## Loc Qty

## Loc Code

ST139

6

111289

6

st139h

12

113890

12

ST146

30

114845

30

DAS  
31  
9-89

D4728-057

Manufactured No

110

Each

10.0000

1 1

**\*D4728-057\***

Ps7J1 Jumper

\*\*

116304

DAS  
33  
9-89

14-07-01

## Location

## Loc Qty

## Loc Code

MF

5

116304

5

MF5

5

111210

1

116306

4

DAS  
31  
9-89

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 5

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 6

Work Order ID: 120689

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

**\*120689\***

**\*D139-816-011\***

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

D4728-063

Manufactured No

110 Each 5.0000

**\*D4728-063\***

Cabin Temp Sensor Jumper Assembly

DAS  
31  
9-89

Location

Loc Qty

Loc Code

MF5

5

111217

1

116313

4

\*\*

116315

DAS  
33  
9-89

DAS  
06  
9-89

D4730-020-035

Manufactured No

110 Each 139.0000

**\*D4730-020-035\***

Velcro Strip 2.0W/ X 3.5L

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST121

90

110415

18

114738

1

119193

71

ST122

49

111390

4

120063

45

\*\*

24

DAS  
33  
9-89

DAS  
06  
9-89

D5032-1

Manufactured No

110 Each 68.0000

**\*D5032-1\***

Doubler

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST129

61

111811

1

119834

60

ST130

7

111976

7

\*\*

16

DAS  
33  
9-89

14-07-01

2719834

14x121026

C

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 6



# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 7

Work Order ID: 120689

\*120689\*

Parent Item: D139-816-011

\*D139-816-011\*

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

D5032-3

Manufactured No

110

Each

85.0000

16

16

\*D5032-3\*

Doubler

\*\*

DAS

33

9-89

DAS

06

9-89

DAS

31

9-89

Location

Loc Qty

Loc Code

ST129

73

119835

73

ST131

12

116584

12

119835

2351-20-21-C3C

Purchased

No

110

Each

510.0000

16

16

\*2351-20-21-C3C\*

STUD

\*\*

DAS

33

9-89

DAS

06

9-89

DAS

31

9-89

Location

Loc Qty

Loc Code

ST396

510

M127922

72

M128068

438

128068

50-009-2

Purchased

No

100

Each

550.0000

16

16

\*50-009-2\*

Grommet

\*\*

DAS

33

9-89

DAS

06

9-89

DAS

31

9-89

Location

Loc Qty

Loc Code

MF5

24

m128022

24

ST378

526

122594

1

m128022

9

m128047

516

128047

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 7

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 8

Work Order ID: 120689

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

\*120689\*

\*D139-816-011\*

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

AN970-3

Purchased

No

110

Each

362.0000

10

10

\*AN970-3\*

Washers

\*\*

DAS  
33  
9-89

DAS  
06  
9-89

Location

Loc Qty

Loc Code

ST508

362

m127432

6

m128057

356

DAS  
31  
9-89

BT1.5I-M

Purchased

No

110

Each

1,537.000

24

24

\*BT1.5I-M\*

Tie Wrap

\*\*

DAS  
33  
9-89

DAS  
06  
9-89

Location

Loc Qty

Loc Code

ST283

537

123742

537

st507

1000

m128238

1000

DAS  
31  
9-89

BT3LH-L

Purchased

No

110

Each

496.0000

12

12

\*BT3LH-L\*

Tie Wrap

\*\*

DAS  
33  
9-89

DAS  
06  
9-89

Location

Loc Qty

Loc Code

st507

496

m128238

496

DAS  
31  
9-89

128238

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 9

Work Order ID: 120689

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

\*120689\*

\*D139-816-011\*

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1:00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

5,953.000

35

35

\*MS21042L3\*

Nut

\*\*

DAS  
33  
9-89

DAS  
96  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST314

109

108816

9

M127410

13

M127831

39

M128401

48

ST506

955

123900

955

ST509

4889

M127831

2

M128754

4887

128734

DAS  
96  
9-89

MS24694-S51

Purchased

No

110

Each

152.0000

36

36

\*MS24694-S51\*

Screw

\*\*

8x 129499

DAS  
33  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST303

152

m127432

1

m128635

151

38x128635

DAS  
96  
9-89

MS27039-1-15

Purchased

No

110

Each

823.0000

21

21

\*MS27039-1-15\*

Screw

\*\*

140701

DAS  
33  
9-89

DAS  
31  
9-89

## Location

## Loc Qty

## Loc Code

ST306

223

124326

223

ST506

600

m127916

600

124326

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 9

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 10

Work Order ID: 120689

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

\*120689\*

\*D139-816-011\*

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0316J

Purchased

No

110

Each

1,028.000

5 5

\*NAS1149D0316.J\*

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST293

628

M127993

628

ST510a

400

M127956

400

127993

NAS1149D0332J

Purchased

No

110

Each

3,308.000

34 34

\*NAS1149D0332.J\*

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST294

369

m128606

369

ST510a

2939

m128612

2939

128612

NAS1149D0663J

Purchased

No

110

Each

1,809.000

6 6

\*NAS1149D0663.J\*

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST294

7

123265

4

M126284

3

ST510a

1802

M126334

699

M127813

35

M127916

68

M128818

1000

128818

DAS  
33  
9-89

DAS  
06  
9-89

DAS  
33  
9-89

DAS  
06  
9-89

DAS  
33  
9-89

DAS  
06  
11-07-0-89

Tuesday, June 10, 2014 1:33:14 PM

Shop Packet Print

Page 10

# Picklist Print

Tuesday, June 10, 2014 1:33:14 PM

Page 11

Work Order ID: 120689

**\*120689\***

Parent Item: D139-816-011

**\*D139-816-011\***

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 8/15/14

Start Qty: 1.00

Required Qty: 1.00

CB200 Purchased No

110 Each 23.0000 3 3

**\*CB200\***

Acrylic Adhesive, 3.5G

FRIGIDAIRE  
DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST264

23

m129423

23

110 Each

26.0000

2 2

CS125-1032-8AACR

Purchased No

**\*CS125-1032-8AACR\***

Stud

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST283

26

M127974

26

110 Each

23.0000

1 1

D5078-1

Manufactured No

**\*D5078-1\***

Bracket

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST139B

23

115477

23

\*\*

\*\*

\*\*

DAS  
06  
9-89

DAS  
93  
9-89

DAS  
93  
9-89

DAS  
06  
9-89

DAS  
06  
9-89

129794

127744

115477

14-07-01

# **DART SERVICE INSTRUCTION**

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT

AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

## **1.0 PURPOSE**

The purpose of this Dart Service Instruction (DSI) is to provide an alternate method of installing the D139-816-011 Interior Ceiling Panel Kit for customers with newer 300 series aircraft models with split center ceiling panels.

## **2.0 PROCEDURE**

This procedure modifies step 3.1.7 of IIN-D139-816 Rev. D.

- 2.1 Position the D4634-041/-043/-045 center panels onto the p/n E4417F01 cabin isolation mounts using  $\varnothing 0.25$ " (6 mm) holes in the panels. Identify those mounts that do not align with holes in the panels. Ensure that a gap between the D4634-041/-043/-045 panels of approximately 0.050" (1.3 mm) is maintained.
- 2.2 Remove extra and non-aligning cabin isolation mounts from the ceiling. Temporarily install the removed mounts into non-align holes in the panels and paint mark the back of the E4417F01 mounts. Position the D4634-041/-043/-045 center panels onto p/n E4417F01 cabin isolation mounts. Ensure the new mount locations get marked in the cabin roof. Remove panels keeping the mounts on the panels.
- 2.3 Remove ceiling insulation from aircraft ceiling at the new marked mount locations.
- 2.4 Apply a small amount of CB 200 Click Bond adhesive to the E4417F01 cabin isolation mounts that are being relocated.
- 2.5 Reposition the ceiling panels on the ceiling pressing the E4417F01 cabin isolation mounts firmly on the ceiling and holding in position until the adhesive cures enough to remove the screws from the mount.
- 2.6 Install the necessary rivets to re-fasten the E4417F01 cabin isolation mounts to the ceiling.
- 2.7 Continue the ceiling panel installation as indicated in the IIN-D139-816.

## **3.0 GENERAL NOTE**

- 3.1 Due to the thermoforming process variations in material thickness may occur. It is acceptable to install longer or shorter Dzus fasteners as required to accomodate this material variation.

## **4.0 WEIGHT & BALANCE**

This DSI has a negligible effect on Weight & Balance.

## **5.0 PARTS LIST**

For D139-816-011 & CHG 005 and later, the following parts have been added to the kits.




QTY. -011	PART NUMBER	DESCRIPTION
X	D139-816-011	INTERIOR CEILING PANEL KIT
3	CB 200	3.5g ACRYLIC ADHESIVE

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY:   
D. SHEPHERD (DE # 02)

DATE: 14.03.24  
CERT. NO.: SH12-54  
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION		BY DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9686	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

# **DART SERVICE INSTRUCTION**

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT  
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

## **1.0 PURPOSE**

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

## **2.0 PROCEDURE**

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x  $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
- 2.3 Install overhead cannon plug in the D5078-1 Bracket using existing NAS1801/1802 screws and existing AS85049/95-20A-A Perimeter Mounting Flange as shown in Figure 2.
- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

## **4.0 WEIGHT & BALANCE**

This DSI has a negligible effect on Weight & Balance.

## **5.0 PARTS LIST**

The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.



QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

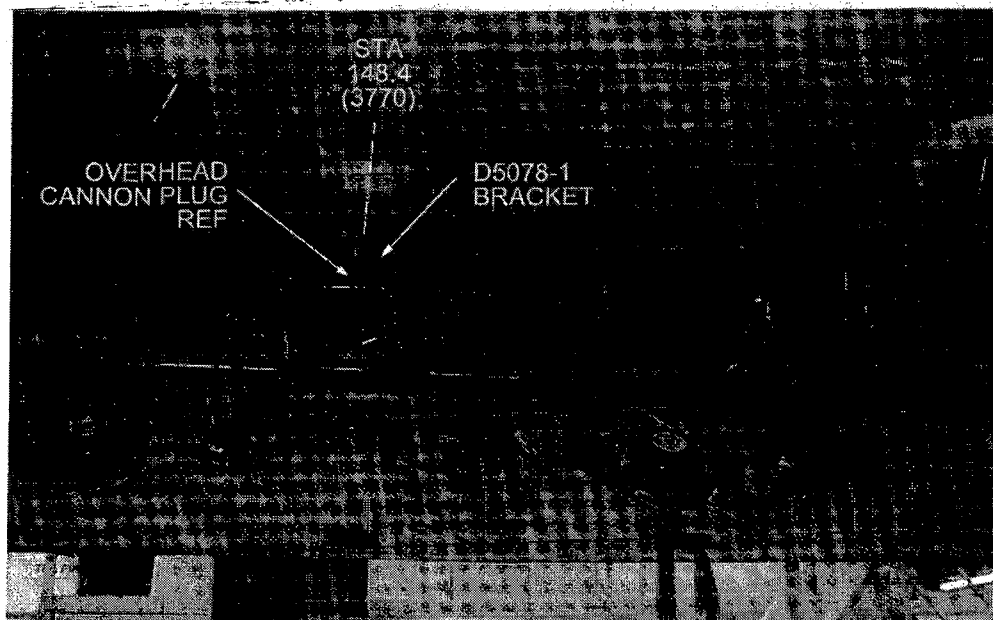
CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

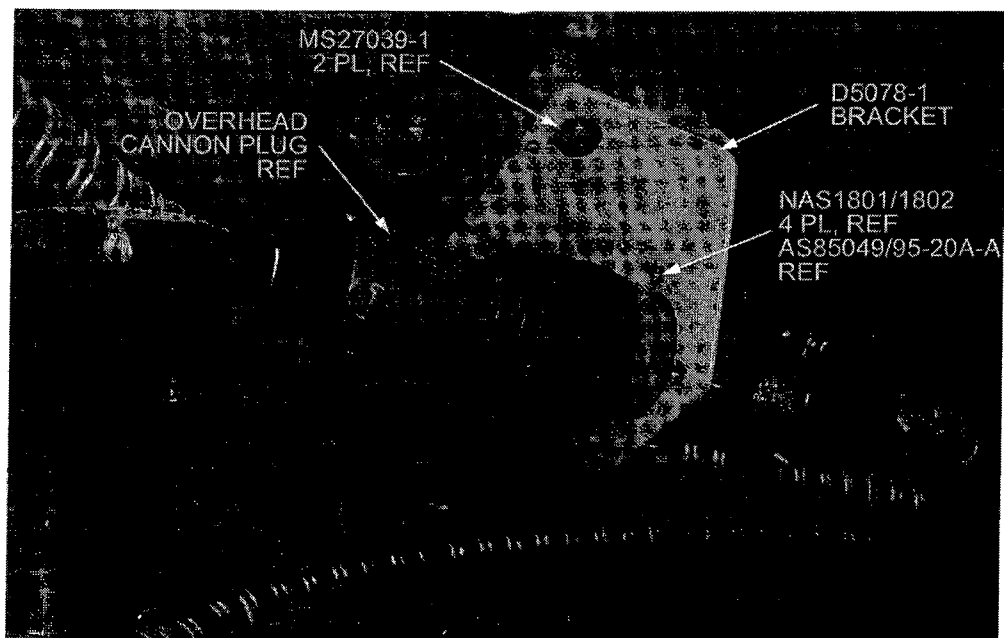
BY:   
D. SHEPHERD (DE # 02)

DATE: 14.03.24  
CERT. NO.: SH12-54  
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION		BY DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BRACKET INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



**Figure 1. - LH Side Overhead Panel**



**Figure 2. - D5078-1 Bracket Installation**

DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BRACKET INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



## 5.0 PARTS LIST

DAS  
31  
9-89

14-07-17

Qty -011	Part Number	Description
X	D139-816-011	INTERIOR CEILING PANEL KIT
1	D4634-041	FWD, CENTER CEILING PANEL ASSEMBLY
1	D4634-141	* FWD, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-043	MIDDLE, CENTER CEILING PANEL ASSEMBLY
1	D4634-143	* MIDDLE, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-045	AFT, CENTER CEILING PANEL ASSEMBLY
1	D4634-145	* AFT, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-041	LH, FWD CEILING PANEL ASSEMBLY
1	D4635-141	* LH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-042	RH, FWD CEILING PANEL ASSEMBLY
1	D4635-142	* RH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-043	LH, AFT CEILING PANEL ASSEMBLY
1	D4635-143	* LH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-044	RH, AFT CEILING PANEL ASSEMBLY
1	D4635-144	* RH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
16	D4636-043	RECEPTACLE BRACKET ASSEMBLY
10	D4636-11	BRACKET
16	D4636-5	BRACKET
4	D4636-7	RETAINER PLATE
1	D4636-9	TEMPLATE
1	D4648-1	TEMPLATE
6	D4653-041	VENT MANIFOLD ASSEMBLY
6	D4653-11	CLAMP
3	D4664-7	SPACER
2	D4712-043	BRACKET ASSEMBLY
2	D4716-1	DUCT HOSE
4	D4716-3	DUCT HOSE
6	D4716-5	DUCT HOSE
1	D4728-057	HARNESS ASSEMBLY
1	D4728-063	HARNESS ASSEMBLY
24	D4730-020-035	VELCRO STRIP
16	D5032-1	DOUBLER
16	D5032-3	DOUBLER
16	2351-20-21-C3C	DZUS SCREW
16	50-009-2	GROMMET
10	AN970-3	WASHER
24	BT1.5I-M	TIE WRAP
12	BT3LH-L	TIE WRAP
1	CB 200	3.5g ACRYLIC ADHESIVE
2	CS125-1032-8-AA-CR	STUD (or CS125-1032-8-AA-CRM)
35	MS21042L3	NUT
36	MS24694-S51	SCREW
21	MS27039-1-15	SCREW
5	NAS1149D0316J	WASHER (or AN960JD10L)
34	NAS1149D0332J	WASHER (or AN960JD10)
6	NAS1149D0663J	WASHER (or AN960JD616)

## NOTES:

(\*) DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE  
D4634-141/-143/-145 ARE REPLACEMENT PANELS  
D4635-141/-142/-143/-144 ARE REPLACEMENT PANELS

• COPYRIGHT © 2012 BY DART AEROSPACE LTD. •

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

Revision: D

Date: 13.12.16

**DART SERVICE INSTRUCTION**TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT  
AND ICA-D139-816 REV. 3 OR SUBSEQUENTREF. TCCA STC: SH12-54  
REF. FAA STC: SR03251NY  
REF. EASA STC: 10045158**1.0 PURPOSE**

The purpose of this Dart Service Instruction (DSI) is to provide an alternate method of installing the D139-816-011 Interior Ceiling Panel Kit for customers with newer 300 series aircraft models with split center ceiling panels.

**2.0 PROCEDURE**

This procedure modifies step 3.1.7 of IIN-D139-816 Rev. D.

- 2.1 Position the D4634-041/-043/-045 center panels onto the p/n E4417F01 cabin isolation mounts using  $\varnothing 0.25"$  (6 mm) holes in the panels. Identify those mounts that do not align with holes in the panels. Ensure that a gap between the D4634-041/-043/-045 panels of approximately 0.050" (1.3 mm) is maintained.
- 2.2 Remove extra and non-aligning cabin isolation mounts from the ceiling. Temporarily install the removed mounts into non-align holes in the panels and paint mark the back of the E4417F01 mounts. Position the D4634-041/-043/-045 center panels onto p/n E4417F01 cabin isolation mounts. Ensure the new mount locations get marked in the cabin roof. Remove panels keeping the mounts on the panels.
- 2.3 Remove ceiling insulation from aircraft ceiling at the new marked mount locations.
- 2.4 Apply a small amount of CB 200 Click Bond adhesive to the E4417F01 cabin isolation mounts that are being relocated.
- 2.5 Reposition the ceiling panels on the ceiling pressing the E4417F01 cabin isolation mounts firmly on the ceiling and holding in position until the adhesive cures enough to remove the screws from the mount.
- 2.6 Install the necessary rivets to re-fasten the E4417F01 cabin isolation mounts to the ceiling.
- 2.7 Continue the ceiling panel installation as indicated in the IIN-D139-816.

**3.0 GENERAL NOTE**

- 3.1 Due to the thermoforming process variations in material thickness may occur. It is acceptable to install longer or shorter Dzus fasteners as required to accomodate this material variation.

**4.0 WEIGHT & BALANCE**

This DSI has a negligible effect on Weight & Balance.




**5.0 PARTS LIST**

For D139-816-011 & CHG 005 and later, the following parts have been added to the kits.

QTY. -011	PART NUMBER	DESCRIPTION
X	D139-816-011	INTERIOR CEILING PANEL KIT
3	CB 200	3.5g ACRYLIC ADHESIVE

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**BY:   
D. SHEPHERD (DE # 02)DATE: 14.03.24  
CERT. NO.: SH12-54  
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9686	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

REFERENCE ONLY

DAS  
31  
9-89**DART SERVICE INSTRUCTION**TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT  
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

**1.0 PURPOSE**

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

**2.0 PROCEDURE**

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x  $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
- 2.3 Install overhead cannon plug in the D5078-1 Bracket using existing NAS1801/1802 screws and existing AS85049/95-20A-A Perimeter Mounting Flange as shown in Figure 2.
- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

**4.0 WEIGHT & BALANCE**

This DSI has a negligible effect on Weight & Balance.

**5.0 PARTS LIST**



The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.

QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)DATE: 14.03.24  
CERT. NO.: SH12-54  
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BRACKET INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

**Work Order ID 120689**

Tuesday, June 10, 2014 1:33:06 PM

**\*120689\***

Page 1

Item ID: D139-816-011

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14 Start Qty: 1.00 **\*1\***


Cust Item ID:

Required Date: 8/15/14 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals:

Process Plan: 

Date: 14-6-10

Tooling:

Date:

Run Start **\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

DSI9686

A

DSI9691

A

IIN-D139-816

D

100.

Document Control

0.00

**\*100\***

DOCUMENT CONTROL

DC

Memo

0.00

Doc Control -USB or Paperwork

Photocopy blue file &amp; type labels as per PPP D139-816-011 CHG005

MLD 1407-02

110

Pick Kit

0.00

**\*110\***

Packaging

Memo

0.00

Packaging